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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/511,635		10/18/2004	Rein Tigane	HE12-PT009	HEI2-PT009 . 4138	
3624	7590	04/10/2006		EXAMINER		
VOLPE AT UNITED P		•	RICHTER, SHELDON J			
30 SOUTH				ART UNIT	PAPER NUMBER	
PHILADEL	PHIA, PA	A 19103		3748		
				DATE MAIL ED: 04/10/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		10/511,635	TIGANE, REIN					
	Office Action Summary	Examiner	Art Unit					
		Sheldon J. Richter	3748					
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	correspondence addres	SS				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) filed on							
•	This action is FINAL . 2b)⊠ This action is non-final.							
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
/_	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
4)[\inf	Claim(s) 1-5 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
•	6)⊠ Claim(s) <u>1-5</u> is/are rejected.							
7)								
• -	8) Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
Application Papers								
9)☐ The specification is objected to by the Examiner. 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
	under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)		to have been received						
	1. Certified copies of the priority document2. Certified copies of the priority document		ation No					
	2. Certified copies of the priority document3. Copies of the certified copies of the priority			ane				
	•		ived in this National Ota	igc				
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
		, .						
Attachmen								
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date								
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08		al Patent Application (PTO-152	i2)				
Paper No(s)/Mail Date <u>10/18/2004</u> . 6) Other:								

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Regarding claims 1-5, the phrase "or equivalent" recited on the claims page at line 8 renders the claim(s) indefinite because the claim(s) include(s) elements not actually disclosed (those encompassed by "or equivalent"), thereby rendering the scope of the claim(s) unascertainable. See MPEP § 2173.05(d).
- 4. Regarding claim 5, the phrase "and/or" renders the claim indefinite because the claim includes elements not actually disclosed (those encompassed by "and/or"), thereby rendering the scope of the claim(s) unascertainable. See MPEP § 2173.05(d).

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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6. Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by DE 3616001. DE 3616001 teaches an external combustion engine including a body (1), a working chamber (8), combustion chamber (16), crankcase (4) and compression chamber (13), at least one working piston (9), compression piston (14) and crank mechanism (3), and a valve gear (10) and a heat exchanger (6), wherein the required air is drawn by suction via valves 19 from the air surrounding the engine, and wherein the expanded hot air is directed after the working cycle from the working chamber (16) through a valve (10) past the heater (7) into the combustion chamber (5), to be used as combustion air, characterized in that the air used as working gas is drawn by suction through a valve into the crankcase (4), where the air is pre-compressed and from where the pre-compressed air can be moved through a valve (10) into the compression chamber (8).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheldon

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J. Richter whose telephone number is (571) 272-4863. The examiner can normally be reached on M-F from 9:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion can be reached on (571) 272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sheldon J Richter Primary Examiner Art Unit 3748

Talla letets